

Claims

1. Optical recording medium comprising an active layer (2) made of inorganic material, presenting a front face (3) for receiving an optical radiation (4) during writing operations, and a rear face (5), medium characterized in that the inorganic material is a tellurium and zinc alloy comprising an atomic percentage of between 60% and 70% of zinc and between 30% and 40% of tellurium.
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- 10 2. Recording medium according to claim 1, characterized in that the alloy comprises 65% of zinc and 35% of tellurium.
- 15 3. Recording medium according to one of the claims 1 and 2, characterized in that the active layer (2) has a thickness comprised between 15 nanometers and 50 nanometers.
- 20 4. Recording medium according to any one of the claims 1 to 3, characterized in that it comprises a semi-reflecting layer (6) arranged on the front face (3) of the active layer (2) and having a thickness comprised between 4 nanometers and 10 nanometers.
- 25 5. Recording medium according to claim 4, characterized in that the semi-reflecting layer (6) is made of metal taken from the group comprising aluminium, gold, silver, copper, zinc, titanium, nickel and alloys thereof.
6. Recording medium according to any one of the claims 1 to 5, characterized in that it comprises an additional metal layer (7) arranged on the rear face (5) of the active layer (2).

7. Recording medium according to claim 6, characterized in that the additional metal layer (7) has a thickness comprised between 9 nanometers and 12 nanometers.

5 8. Recording medium according to one of the claims 6 and 7, characterized in that the material of the additional metal layer (7) is taken from the group comprising aluminium, gold, silver and copper.

10 9. Recording medium according to any one of the claims 1 to 8, characterized in that it comprises a protective layer (8) of polymer material on the rear face (5).

15 10. Recording medium according to claim 9, characterized in that the protective layer (8) is polydimethylsiloxane-based and has a thickness comprised between 10 micrometers and 100 micrometers.

11. Recording medium according to one of the claims 9 and 10, characterized in that the protective layer (8) is deformable.